

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number  
**WO 03/059731 A1**

(51) International Patent Classification<sup>7</sup>: **B63B 35/16**

(21) International Application Number: PCT/NO03/00014

(22) International Filing Date: 16 January 2003 (16.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

20020247	16 January 2002 (16.01.2002)	NO
20023747	7 August 2002 (07.08.2002)	NO

(71) Applicants (for all designated States except US): **SINTEF FISKERI OG HAVBRUK AS** [NO/NO]; N-7465 Trondheim (NO). **FISKERSTRAND VERFT AS** [NO/NO]; Risevegen 23, N-6035 Fiskarstrand (NO). **ROLLS ROYCE MARINE AS** [NO/NO]; Postboks 826, N-6001 ÅLESUND (NO).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PEDERSEN, Roar**

[NO/NO]; Lagårdsalleen 26, N-6009 ÅLESUND (NO). **RØSVIK, Håvard** [NO/NO]; Åkerveien 12B, N-7046 Trondheim (NO). **ENERHAUG, Birger** [NO/NO]; Væretøa 118, N-7054 Ranheim (NO). **ANGELL, Snorre** [NO/NO]; Olav Engelbrektsons Allé 40, N-7040 Trondheim (NO). **SAURE, Oddmar** [NO/NO]; N-6165 SÆBØ (NO). **GJØSUND, Svein, Helge** [NO/NO]; Reidulvs gate 1, N-7052 Trondheim (NO).

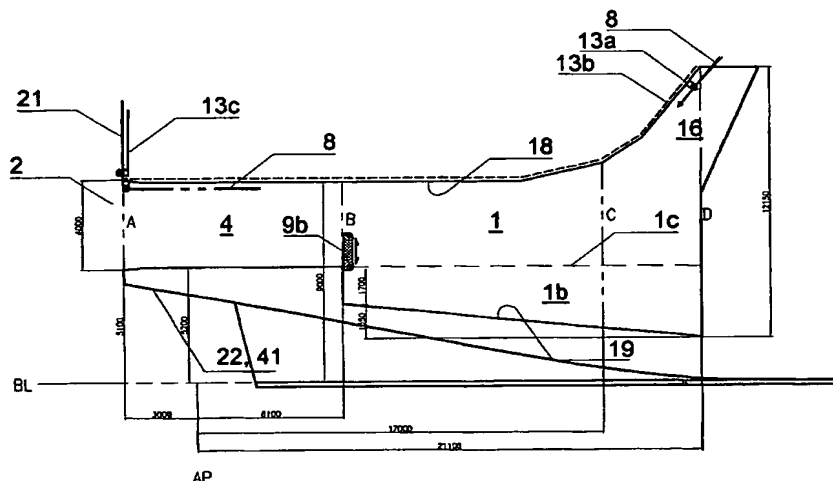
(74) Agent: **FLUGE & OMDAL PATENT AS**; Postboks 214, N-1601 Fredrikstad (NO).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A TRAWLING VESSEL WITH A LOCK CHAMBER



(57) Abstract: The invention relates to a trawling vessel for use with a trawl net (5) for catching marine bio-resources, with a trawl sack (3) attached aft on a trawl net (5) for keeping the catch, said vessel comprising lines (51, 61) for towing and hauling said trawl net (5) and trawl drums (6) for hauling said trawl net (5), characterized by a lock chamber (1) in a stern (21) of said vessel, said lock chamber (1) having a main portion of its volume below said design water line of said vessel, said lock chamber (1) being arranged for hauling said trawl sack (3) with the catch from the sea, through a sluieway (2) in said stern (21), and said lock chamber (1) being arranged for discharge of said trawl sack (3) and for temporarily keeping said catch; and a trunk channel (16, 12) leading up from said lock chamber (1) and being arranged so that said trawl sack (3), in a generally discharged state, may be hauled up through said trunk channel (16, 12) to a deck (24), thereby leaving said catch in said lock chamber (1).